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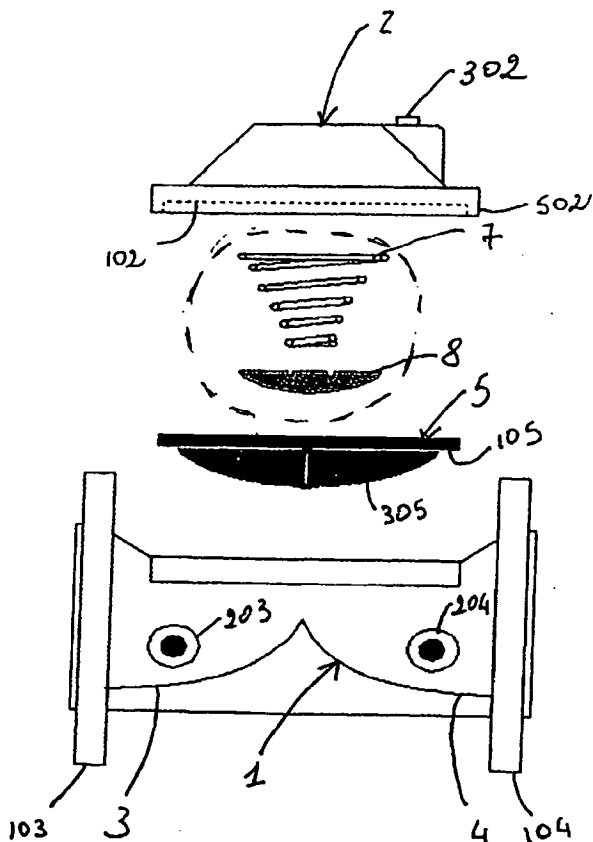
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(54) Title: DIAPHRAGM VALVE AND OPEN/CLOSE ELEMENT FOR SAID VALVE



(57) Abstract: The invention relates to a diaphragm valve (5), which comprises a valve body (1), composed of an inlet sleeve (3) and an outlet sleeve (4), converging to a fluid flow chamber which contains the valve seat (106), formed by the flattened intersecting surface of the two sleeves (3, 4), which chamber is divided into two parts, one being integrated in the valve body (1) and the other consisting of a bonnet (2) to be sealably fitted onto the valve body (1) an elastic diaphragm (5) being provided, which has a peripheral flange (105) to be clamped between two peripheral flanges (101, 102) of the two parts of the chamber, the latter being connected to a central dome-shaped part (305) which, by using appropriate means situated between the dome (305) and the bonnet (2) may be compressed against the valve seat (106), thereby preventing any fluid flow from the inlet sleeve (3) to the outlet sleeve (4). According to the invention, the cross section of the two sleeves (3, 4), near the valve seat (106), is flattened in the direction of flow and elongated in the direction transverse thereto, in such a manner as to form a substantially elliptical port, whereas the dome (305) of the diaphragm (5) has the shape of a sector of an ellipsoid, whose section plane corresponds to said flow chamber port.

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